SOROKA, V.G., mayor meditsinskoy sluzhby; TERNOVOY, F.V., podpolkovnik meditsinskoy sluzhby; PALAMARCHUK, A.K., podpolkovnik meditsinskoy sluzhby

Pneumoarthrography in knee joint injuries. Voen.-med. zhur.
no.11:75 N '61. (MIRA 15:6)
(KNEE--WOUNDS AND INJURIES)
(KNEE--RADIOGRAPHY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

THRNOVOY, I.d., polkovnik med. slumby.

Plaster mixing box. Voen.-med.zhur. no.11:82 H '56. (MIRA 12:1)
(PLASTERS, SURDIGAL)

TERMOVOY, I.G., polkovnik med.sluzhby

Reposition spparatus for use in gunshot and closed fractures.

Voen.med.shur. no.12:72-73 D'57

(FRACTURES, surgery, reposition appar. (Rus))

KALASHNIKOV, G.P. (Odessa, Komsomol'skaya ul., d.13, kv.4); TERNOVOY, K.S.

Operative treatment of tuberculous trochanteritis. Ortop., travm. i protez. 25 no.11:43-47 N *64. (MIRA 18:11)

1. Iz kostnotuberkuleznogo otdeleniya (zav. - G.P. Kalashnikov) Odesskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach -K.S. Ternovoy). Submitted November 1, 1963.

TERNOVOY, K.S. (Odessa)

Changes in the bones in polycythemia. Vrach. delo no.12: 86-89 D '63. (MIRA 17:2)

种种比较性的特殊的原理的。他们就是自己的特殊的影响的特别,但是不是一种的人的一种的人的一种的特别,这些一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种,

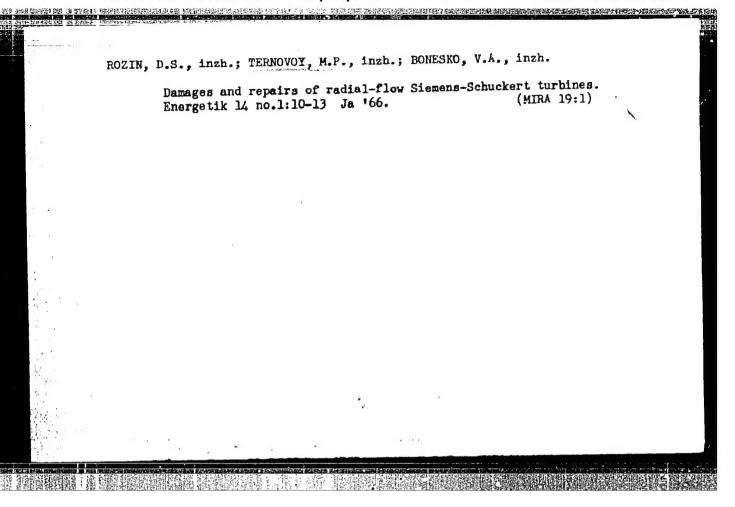
1. Kafedra rentgenologii i radiologii (zav. - prof. Ye.D. Dubovyy) i kafedra ortopedii i travmatologii (zav. - prof. I.G. Gertsen) Odesskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

Y TO BOOK FOR A STATE OF THE PROPERTY OF THE P

ROZIN, D.S., inzhener; TERNOVOY, M.P., inzhener.

Repairing blades of a radial turbine. Elek.sta. 24 no.11:51-54 B '53. (MLRA 6:11) (Blades)



5-2

USSR/Human and Animal Morphology (Normal and Pathological). Nervous System. Central Nervous System.

Abs Jour: Ref Zhur-Biol., No 16, 1958 74290

Author: Ternovoy, V. I.

Insta. : Rostov Medical Institute.

Title : On the Question of Structural Changes in the Central Nervous System in Acute and

Chronic Liver Diseases.

Orig Pub: Sb. tr. Rostovs't. med. in-ta, 1957, km. 1,

3-21

Abstract: No abstract.

Card : 1/1

Kowdor deposit of vermiculite. Razved.i okh.nedr 26 no.5: 5-11 My '60. (MIRA 13:7)

1. Severo-Zapadnoye geolupravleniye. (Kovdor region (Kola Peninsula)--Vermiculite)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

TENNOVOY, V.I.

Materials on the ecology of the flesh fly Wohlfahrtia magnifica Aschin. in the virgin land area of the Kalmyk A.S.S.R. Zool. Edur. 39 no.8:1174-1179 Ag 160. (MIRA 13:8)

1. Laboratory of Entomology, All-Union Research Institute of Veterinary Sanitary, Moscow.

(Kalmyk A.S.S.R.--Flesh flies) (Parasites-Sheep)

TERNOVOY, V.I.

引发。1965年中国的特别的经验的特色的证明,这种政治和自己的人,这种企业,这种企业,这种企业,但是不是一种的政治的企业,是不是一种企业的企业,但是不是一种企业的企业。

Wohlfahrtia infestation of fine-fleeced sheep. Veterinarila 38 (MIRA 16:6) no.6:60-63 Je '61.

l. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii. (Flesh flies) (Parasites-Sheep)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

端。以及各种的自身的自身的。

Consitions governing the formation of miors in the Mondar phlogopite-wormiculize deposit. Nat. po gool. i pol. iskey. Sev.-Zep. 95F9R no.3:165-174 *62.

Mathods for "aking and processing samples in vermiculity deposits. Ibid.:214-227 (MERA 17 L.)

ZISKIND, M.S.; TERNOVOY, V.I.

Prospects for finding phlogopite in the Kola peninsula. Mat. po geol. i pol. iskop. Sev.-Zap. RSFSR no.3:175-183 '62. (MIRA 17:12)

TERNOVOY, V. I.

"Wohlfahrtia Infestation in Finewooled Sheep."

Veterinariya, Vol. 38, No. 6, 1961. p. 64

All-Union Scientific-Research Institute of Meat and Dairy Industry.

HOLONITRON, Pattern trovech, TERHOVOY, V.I., spets. red.;
I(Indisort, v.i., rod.

[Vermiculite] Vermikulit. Murmansk, Murmanskoe knizhnoe
izd-ve, 1964. 50 p. (MIRA 18:7)

TERNOVOY, V.I., kand.biolog.nauk

Personal prophylaxis during the work with chlorophos. Veterinariia 41 no.3191-92 Mr 65. (MIRA 18:4)

l. Krasnoyarskaya nauchno-issledovatel skaya veterinarnaya stantsiya.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

Phagocytic activity of blood neutroffils in write late exposed to chronic Ca⁴⁵ irrediation. Radiobtologila 5 no.31470-475 145.

(Mind 1347)

1. Institut gigiyeny truda i professional nyah zabolevatty AMU SCOR, Moskva.

TERNOVOY, V.I. (Krasnodarskiy kray); BANNOV, A.T. (Krasnodarskiy kray)

Practices in protecting animals from bloodsucking insects.
Veterinariia 42 no.9:95-96 S '65. (MIRA 18:11)

HER AND ALL AND A LANCE THE AND A TRANSPORTED AND A SECTION AND A SECTION AND A SECTION AND A CONTRACT OF A CONTRA

RODE: DORP, B.B.; TERNOVOY, V.1.

Occurrence of the southern species of Piptera of the genus Wohlfahrtia B.B. (Sarcophagidae) in the Kalmyk A.S.S.R. Ent. oboz. 44 no. 42839-240 165 (MIRA 1921)

1. Paleontologicheskiy institut AN 3SSR, Moskva.

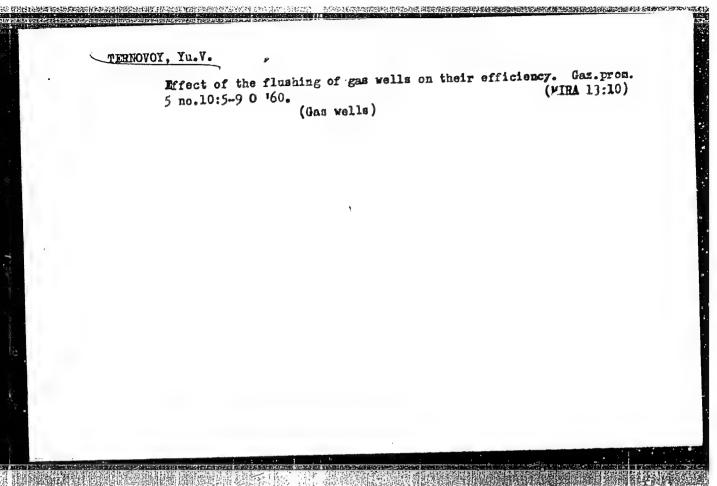
KORZTSKIY, B.A., inches TERROYOY, V.F., forthes SHERER, i.i., tekind's

Making the mouth of a chaft with the help of a caiseon. Stakinterple

9 no.5225-26 My 166.

1. Yagosayakaya shakhtostrantel hoye upwavlenlye kombinata

Kuzbassahakhtostray (for Sherer).



TERNOVOY, Yu.V.; BELOV, K.A.

Crustal subsidence in the North Stavropol Pelagiadi gas field. Gaz.

delo no.9:7-12 '65.

1. Stavropol'skaya KNIL.

Method of Skiloving 10. Steponorating and part in section (MIRA 18:4) Ciscaucasia, usolansiti 1 gada 9 mastro-41 F 100. (MIRA 18:4) 1. Stavropula and the second control and second institute laboratoriya wasang menage has happenessed vatel shogo institute prirodnogo grade

TERNOTOR, Ye.V., CERCERIN, Value, mattercies, June, strine, Flat, CARRENT, I.N.

Crustel deformation in the devel place of the North Stavengel gar
field. Dokla AN SECTION 10.42955-908 G to. (MIRA 18:10)

1. Submitted Fabruary 16, 1965.

TERNOVOY, Yu.V.

Characteristics of the geology of the Takhta-Kugul'timsk
field. Trudy VNIIGAZ no. 25:45-51 '65. (MIRA 18:12)

TERNAVOY, Yu.V.

Compressibility of reservoir rocks of the Khadum horizon.

Trudy VNIIGAZ no. 25:112-116 '65. (MIRA 18:12)

TERNOVSKAYA, A. N.

32359

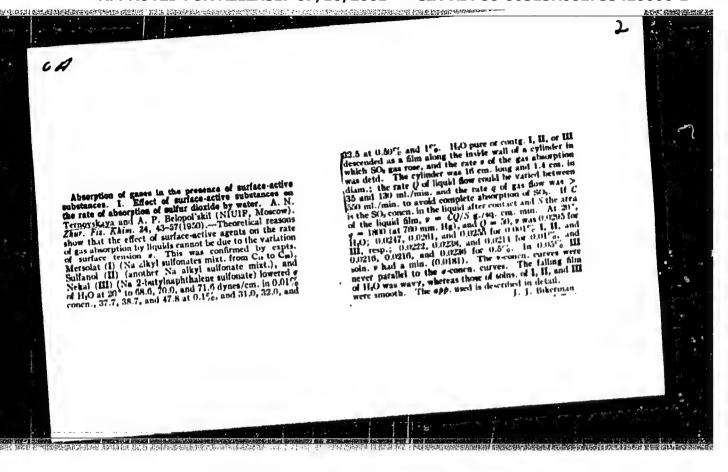
TERNOUSKAYA, A. N. i RELOPOLISKIY, A. P. Ovliyanii Povyerkhnostro-aktivnyy Vyeshchyestv Na skorooti Aborbetii Gazov, (Ryefyerst) Soobshch. O Nauck. Rabotax Chlyensv. Vsyesoyuz. Khim. o-Va im. Myendyelyeyova, 1949, vyp. 3, c. 31-33.

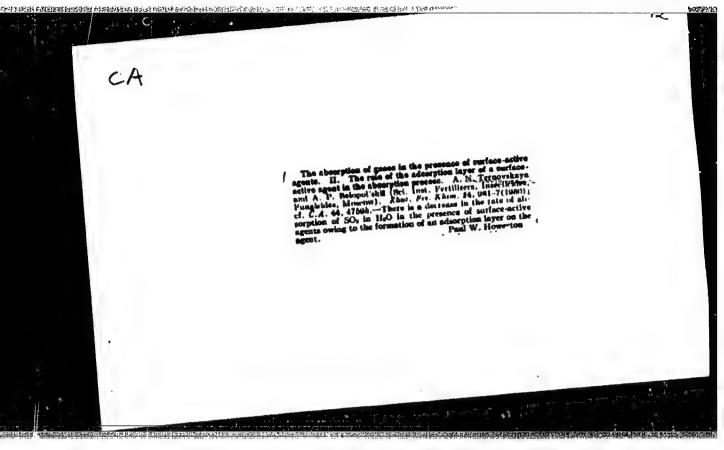
SO: Letopis' Zhurnal'nykh Statey, Vol. 44

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CIA-RDP86-00513R001755420006-1





TERNOVSKAYA, A. N.

Aug 52

USSR/Chemistry - Surface-Active Agents, Snlfnr Dioxide

"Absorption of Gases in the Presence of Surface-Active Agents, III. The Mechanism of the Effect of Surface-Active Agents on the Absorption Rate, " A. N. Terrovskaya and A. P. Belopol'sky (deceased), Sci-Res Inst of Fertilizers and Insecto-fungicides, Moscow.

Zhur Fiz Khim, Vol 26, No. 8, pp 1090-1096

Expts were conducted on the effect of surface-active agents on the absorption of sulfur dioxide by water under various hydrodynamic conditions. A mechanism explaining the action of surface-active agents on the absorption of a gas in the film of a flowing liquid was proposed. According to this mechanism, a decrease in absorption velocity is due to a change in the hydrodynamics of the flowing surface which brings about an increase in the "effective thickness" of the liquid diffusion film. The influence of addns of surface-active agents is apparent only in those cases where the resistance of the liquid diffusion layer has an effect on the absorption velocity.

263: T 2

TERNOVSKAYA, A. N.

Aug 52

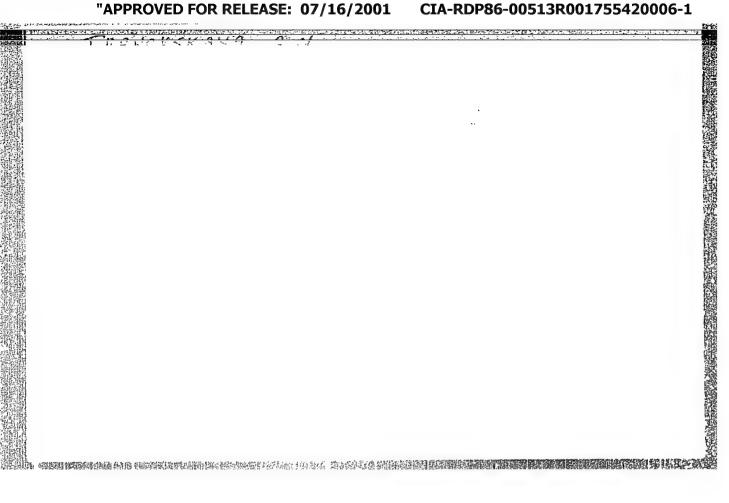
USSR/Chemistry - Surfact-Active Agents; Absorption of Gases

"The Absorption of Gases in the Presence of Surface-Active Agents, IV. Influence of Surface-Active Agents on the Absorption Velocity of CO, and NH, in Water, " A. N. Ternovskaya and A. P. Belopol'sky (deceased), Sci-Res Inst of Fertilizers and Insecto-fungicides, Moscow.

Zhur Fiz Knim, Vol 26, No. 8, pm 1097-1102

Expts with carbon dioxide and armonis confirmed the view that a change in the character of movement of a free-flowing liquid, carrying on its surface an adsorption film of a capillary active substance, is of significance in those cases of absorption where the velocity of the process is determined by the resistance of the liquid diffusion film. Surface-active agents can serve as "indicators" for a liquid film (absorption of CO₂). Changes in the surface due to slackening of capillary waves are insignificant, otherwise, in the absorption of ammonia (resistance due to gas film), the same reduction of velocity would be observed as for sulfur dioxide and carbon dioxide. This supports the explenation that, as a result of the presence of substances which lower surface tension, changes in the hydrodynamics of a flowing liquid, increase the "effective thickness" of the liquid diffusion film and therefore reduce the rate of absorption.

263 T 4



64-58-3-4/20

AUTHORS:

Malets, A. M., Ternovskaya, A. N., Chudov, L. N., Stul', M.I.,

Rozval, B. S.

TITLE:

Reconstruction of Mechanical Furnaces at the Shchelkovo Chemical.
Plant for the Burning of Pyrites in the Boiling Range

(Rekonstruktsiya mekhanicheskikh pechey na Shchelkovskom khimicheskom zavode dlya obzhiga kolchedana v kipyeshchem

sloye)

PERIODICAL:

Khimicheskaya Promyshlennost', 1958, Nr 3,

pp 18 - 22 (USSR)

APSTRACT:

The reconstruction described here was worked out in co-operation with A.G. Sokal'skiy and E. I. Shipov. Such a reconstruction can either be made by new constructions or by an alteration of old mechanical furnaces. This latter possibility is more economic and increases the capacity 2 - 2,5 times. A reconstruction project of the Tower of the Bashen mine of the plant mentioned above is given. The principal alterations consist of a division of the furnace chamber, of the installation

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of air blasts and cooling elements and of a special charging

Reconstruction of Mechanical Furnaces at the Shchelkovo 64-58-3-4/20 Chemical Plant for the Burning of Pyrites in the Boiling Range

bunker. With that furnace no.7 was also reconstructed on the basis of the experiences made in August 1957. The necessity of utilizing the heat of combustion was stated. In order to increase the effectivity of the air blasts the construction of a special blast lattice was developed (a sketch of which is given), and experience showed a certain optimum height of the lattice arrangement (1m). The construction of the raw material feeder was designed by A. N. Malets under consideration of certain particulars. The cooling system was arranged horizontally as this does not lead to the formation of sulfuric acid and to subsequent corrosion. The purification of the gas from dust was guaranteed by dust catchers with cyclone cleaners and electrical precipitators of the XK-45 type, whereas the combustion dust was removed by screw conveyors. The conditions for the starting of the furnace are given. In the work of furnaces no.5 and no.7 until now a combustion of sulfur of 98% was reached with gas with 13% sulfur dioxide. No.7 is especially productive. The temperature in the boiling range was 7500-8000 with the sulfur content

Card 2/3

Reconstruction of Mechanical Furnaces at the Shchelkovo 64-58-3-4/20 Chemical Plant for the Burning of Fyrites in the Boiling Range

in the waste dust not exceeding 1%. Besides many advantages the furnaces show the disadvantage that it is comparatively often necessary to close them down as the mechanization of removing the combustion products is insufficient and the cooling system often burns through, too. In order to make use of the combustion heat the construction of a kettle is proposed which is to be hung in the boiling chamber. There are 2 figures, 1 table.

1. Furnaces--Performance 2. Pyrites--Processing 3. Particles (Airborne)--Control systems 4. Electrostatic precipitators --Performance

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

MAINTS, A.M.; TERMOVSKAYA, A.M.; CHUDOV, L.N.; STUL', M.I.; ROZVAL, B.S.

Remodeling mechanical ovens at the Shchelkovo chemical plant for roasting pyrites in a fluidized bed. Khim. prom. no.3:146-150 (MIRA 11:6)

Ap-My '58. (Pyrites) (Ovens) (Fluidization)

TERNOVSKAYA, 11 N.

Ol'skiy, Yu. Ya. AUTHOR:

SOV/136-59-3-18/21

TTTLE:

Conference on Fluidised-bed Roasting (Soveshchaniye po

obzhigu v kipyashchem sloye)

Tsvetnyye Metally, 1959, Nr 3, pp 79 - 80 (USSR) PERIODICAL:

ABSTRACT: The author notes, with some examples, the wide use being made in the Soviet non-ferrous metals industry of

fluidised-bed roasting processes. To facilitate exchange of operating experience and promote the further application

of such processes a conference was held at the "Elektrotsink" Works in Ordzhonikidze at the end of 1958.

The conference was convened by the Nauchno-tekhnicheskoye obshchestvo tsvetnoy metallurgii (Scientific-technical

Society for Non-ferrous Metallurgy) together with the GNTK RSFSR and the Severo-Osetinskiy sovnarkhoz (Severo-

Osetinskiy Economic Council). Among the reports heard by the conference were the following: A.N. Ternovskaya

and A.M. Malets (NIUIF), analysing the operation of Yu.I. Sabchuk

fluidised roasters in the chemical industry;

and A.T. Ul'yanov of the Voskresenskiy khimicheskiy kombinat (Voskresensk Chemical Combine) on heat utilisation

in pyrites roasting; by I.A. Burovoy, I.V. Bernshteyn

Card1/2

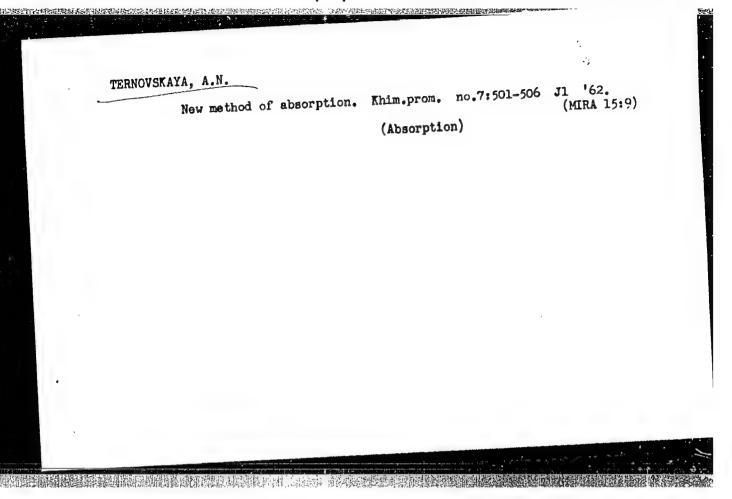
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SOV/136-59-3-18/21

Conference on Fluidised-bed Roasting

and G.Ya. Krichevskiy (Gintsvetmet) on the study and introduction of automatic fluidised-roaster control and complex-automation problems; by A.G. Amelin (NIUIF) on "Production of Sulphuric Acid from Sulphide Ores bt Roasting "Production of Sulphuric Acid from Sulphide Ores bt Roasting available experience of fluidised roasting, noted economies available experience of fluidised roasting, noted economies affected through its introduction and recommended lines effected through its introduction and recommended lines affected through its introduction and recommended lines effected through its introduction and recommended lines affected through its introduction and recommended lines effected through its introduction and recommended lines are development of the fluiwas drawn to shortcomings in the development of the fluiwas drawn to shortcomings in the USSR. The conference dised-bed roasting process in the USSR. The conference and the small process. The praesidium of the Society deplored the small representations at the conference of the research and representations at the conference of the research and representations of the aluminium industry. The planning organisations of the aluminium industry. The proceedings of the conference are due to be published by the Society.

Card2/2



BORISOV, V. M.; VOL'FKOVICH, S. I.; IENSKIY, A. S.; TERNOVSKAYA, A. N.; BERNATSKIY, Yu. P.

In memory of Arkadii Mikhailovich Malets, d. 1963. Khim prom no. 3:233 Mr '64.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

B/081/62/000/014/035/039 B162/B101

AUTHORS:

Mayzel's, M. Ye., Ternovskaya, G. V., Tsinskaya, K. F.

TITLE:

Textile backing of rubberized cloth and its adhesion to

rubber coating

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1962, 654, abstract 14P381 (Tr. N.-i. in-ta rezin. prom-sti, sb. 7, 1960, 74-86)

TEXT: The adhesion of various textile cloths to butyl rubber film was investigated, the cloths being percale 5 (B), percale A (A), calico investigated, the cloths being percale 5 (B), percale A (A), calico coarse, calico bleached, caprone art. 1516, caprone art. 1520, glass coarse, calico bleached, caprone art. 1516, caprone art. 1520, glass coarse, calico bleached, caprone art. 1516, caprone art. 1520, glass coarse, calico bleached, caprone art. 1510, stearic acid 2. The adhesion 100, S 2, captax 0.65, thiuram 1.3, ZnO 5, stearic acid 2. The adhesion of cotton fabrics is 2 - 3 times greater than that of polyamide and glass fabrics. The introduction into the rubber mixture of polar additions (alkyl-phenol-aldehyde resin yarresin 5 (B), epoxy resin 3-40 (E-40), (alkyl-phenol-aldehyde resin No. 100) has little effect on the adhesion butyl-phenol-formaldehyde resin No. 100) has little effect on the adhesion cotton fabrics but increases the adhesion to polyamide and glass to cotton fabrics but increases more with caprone linen art. 1516 than fabrics. The adhesion increases more with caprone linen art. 1516 than with caprone linen art. 1520. For polyamide fabrics the more effective Card 1/2

Textile backing of rubberized...

S/081/62/000/014/035/039 B162/B101

resin is E-40 or No. 100 (3 parts by weight to 100 of rubber). For glass fabrics the best results are obtained with all resins in 1-3 parts by weight to 100 parts of rubber. The increase in resin dosage reduces the bonding strength. The introduction of 30-60 parts by weight of fillings (chalk, kaolin, gas and lamp blacks, graphite, TiO₂) reduces the bond

strength of rubber with cotton fabrics (percale A). The highest values of bonding strength are maintained with the introduction of gas black and chalk. As regards their effect on lowering the bond strength, carbons come in the following order: gas black < lamp black < graphite. The same sequence is observed in the case of polyamide fabrics. [Abstracter's note: | Complete translation,]

Card 2/2

GEPPE, A.P.; TERNOVSKAYA, G.V.; ROZOVSKAYA, G.D.; NIKOLOTOVA, Ye.E.

Changes occurring in some electric properties of rubber during its swelling in the solvents. Kauch. i rez. 22 no.9:17-19 S '63. (MIRA 16:11)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

TULINOVA, V.B.; PLYUSHCHEV, V. Ye.; TERNOVSKAYA, I.V.; LUKOVA, S.N.; SAMUSEVA, R.G.

Mutual solubility of lanthanum sulfate and sodium sulfate.

Zhur. neorg. khim. 5 no.3:695-700 Mr '60. (MIRA 14:6)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im.
M. V. Lomonosova.

(Lanthanum sulfate) (Sodium sulfate)

Determining the resistance of the layers of mean thickness.

Razved. geofiz. nc.(190-1. d 165. (MIRA 18:9)

BAYKOV, B.K.; MELKHINA, V.P.; Prinimali uchastiye: VASIL'YEV, A.S.;
KATSENELENBAUM, M.S.; KOMAROVA, A.A.; ZHIGULIHA, L.A.; TEPNOVSKAYA,
L.N.; YUSHKO, Ya.K.; CHUMAK, K.I.; GUSEL'NIKOVA, E.L.; KETOVA, O.N.

Hygienic characteristics of air pollution in Gubakha and its effect on health of the population. Uch. zap. Mosk. nauch.-issl. inst. san. i gig. no.6:21-25 '60. (MIRA 14:11) (NIZHNYAYA GUBAKHA-AIR-POLLUTION)

NIFONTOVA. M.V.; TERMOVSKAYA, L.N.

Spectographic method for determining the amount of lead in the blood. Lab. delo 7 no.12:13-17 D '61. (MIRA 14:11)

1. Moskovskiy nauchno-issledovatel'skiy institut sanitarii i gigiyeny imeni F.F.Erismana. (ELOOD-ANALYSIS AND CHEMISTRY) (LEAD IN THE BODY) (SPECTRUM ANALYSIS)

USSR/Soil Science - Diology of Soils.

J

Abs Jour

: Ref Zhur Biol., No 22, 1958, 100052

Author

Inst

Ternovskaya, M.I.

Title

: Application of the Sprectroscopic Method for the Determination of Soluble Potassium in a Culture Liquid.

Oric Pub

: Dyul. nauchno-tekhn. inform. po s.-kh. mikrobiol., 1957,

No 3, 15-20

Abstract

The application of the sprectroscopic method confirmed the ability of silicate bacteria to liberate K from silicates and permitted, for the first time, to obtain concrete figures of the K content in a cultured liquid. It constituted 0.0015-0.0062% or 1.5-6.2 mg per 100 ml of the medium, depending on the strain and the applied mineral. However, in the author's opinion, the degree of K liberation is not so great as to insure the potassium nutrition of the plants (in a variant without

Card 1/2

- 53 -

USSR/Soil Science - Diology of Soils.

J

Abs Jour : Ref Zhur Diol., No 22, 1958, 100052

bacteria, the corresponding figures were 0.0014-0.0022% or 1.4-2.2 mg per 100 ml of the medium, with the total content of K in minerals amounting to 1.0-7.75%).

Card 2/2

TERMOVSKAYA, E.I., Cand Bio Sci-(dies) "On the physical girl properties of silicate bacteria and their eff of on plants." Cheese, 1958. 16 pp (Ein of Agr USSR. Udensa Agr Inst), 100 copies (KL, 30-58, 125)

TERNOVSKAYA, M.I. [Ternovs'ka, M.I.]

For a higher level of theoretical research on the use of silicate bacteria preparations. Mikrobiol. zhur. 22 no. 1:58-60 '60. (MIRA 13:10)

1. Odesskiy sel'skokhozyaystvennyy institut, Kafedra agrokhimii. (BACTERIA, SILICATE) (POTATOES) (SOIL INOCULATION)

ALEKSANDROV, V.G., prof., doktor sel'skokhozyaysrvennykh nauk; GOROKHOVSKIY, L.S., kand.sel'skokhozyaystvennykh nauk; TERNOVSKAYA, M.I., kand.biologicheskikh nauk

Liquid preparation of silicate bacteria increases yields. Zemledelie 23 no.9:61-64 S *61. (MIRA 14:12)

1. Odesskiy sel'skokhozyaystvenny institut.
(Field crops—Fertilizers and manures)
(Bacteria, Silicate)

figuid silicate bacteria preparation for Winter Barley. Maroticl. grur. 25 no.1:2.10 '6).

1. Odesskiy sel'skoknozyayatvonnyy institut.

ALEKSANDROV, V.G. [Aleksandrov, V.H.]; TERNOVSKAYA, M.I.

[Ternovs ka, M.I.]

Effectiveness of a liquid preparation of silicate bacteria in the steppe zones of the Ukraine. Mikrobiol. zhur. 25 no.3:48-53 *163. (MIRA 17:1)

1. Odesskiy seliskokhozyaystvennyy institut.

ALEKSANDROV, V.G.; TERNOVSKAYA, M.I.; BLAGODYR, R.M.

Spectral determination of aluminum and silicon in a culture medium using the filter paper method. Zav. lab. 30 no.6:706 (MIRA 17:8)

指出现的相似的对外,但可以是是有效的分别,其代别是实验的一种,但不可以是一种,是不可以是一种,可以不可以是不同的。

1. Odesskiy sel*skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

是在1920年被上班发行者以外的1930年的第三人称单数的成员的企业的企业,在1930年的工作,不是1930年的企业的企业的企业的企业的企业的的**企业的企业的企业的企业的企业的企业**的企业的企业的企业。

TERNOVSKAYA, M. M.

Use of cardivalol under outpatient conditions on those suffering from a cardiovascular neurosis. Vrach. delo no.7:126-127 J1 162. (MIRA 15:7)

1. Kafedra gospital'noy terapii (zav. - prof. I. B. Shulutko) Kalininskogo meditsinskogo instituta i Tret'ya gorodskaya bol'nitsa.

(CARDIOVASCULAR AGENTS) (NEUROSES) (CARDIOVASCULAR SYSTEM—DISEASES)

3.2420

S/203/61/001/006/006/021 D055/D113

AUTHORS:

Gorchakov, Ye.V., and Ternovskaya, M.V.

TITLE:

Contribution to the problem of the angular and spatial

distribution of particles in a radiation belt

PERIODICAL:

Geomagnetizm i aeronomiya, v. 1, no. 6, 1961, 897-901

TEXT: This article shows how formulae are derived to establish a connection between the intensity and the angular distribution of particles at various latitudes along the force line. It is assumed that when particles are moving in a magnetic trap, their speed and magnetic moment remain constant. It is shown that, if particles are distributed at a certain point according to the law $\sin^m \theta$, their angular distribution remains unchanged on all latitudes along the force line and any change in intensity is determined by the simple function from the tension of the magnetic field. The results obtained are used for analyzing experimental data. Data obtained during the flight of the first Soviet space rocket are used to determine the index of angular distribution m at great heights. The trajectory was such that the

Card 1/3

Contribution to the problem ...

S/203/61/001/006/006/021 D055/D113

rocket intersected certain force lines of the dipole magnetic field at three points. The line which is 25000 km from the center of the Earth in the equatorial plane was intersected at distances of 8700, 11000 and 18250 km. At these distances, the following intensity indices were registered in the crystal of the luminescent counter: 3.1010, 6.46.1010 and 14.5.1010 ev/sec. The m figures were calculated as follows: for distances of 8700-11000 km m = 2.04 + 0.5, 11000-18250 km-m = 0.95+0.2 and for 8700-18250 km-m = 1.27+0.15. [Translator's note: for the last item the distance should probably read "over 18250 km"] . The calculated errors are due to inaccuracy in determining intensity when instrument readings were being decoded (10%). There are 1 figure and 7 references: 3 Soviet and 4 non-Soviet references. English-language references are: M. Walt, L.E. Chase Jr., J.B. Claiis, W.L. Imhof, D.J. Knecht. Space Research. Proceedings of the First International Space Science Symposium. Amsterdam, 1960, 910-920; M. Nicolet. Planet. and Space Sci., 1961, 5, no. 1, 1-32; F.S. Johnson. J. Geophys. Ress. 1960, 65, no. 2, 577-584; A.J. Dessler, E.N. Parker, J. Geophys. Res., 1959, 64. no. 12, 2239-2252.

Card 2/3

Contribution to the problem ...

S/203/61/001/006/006/021 D055/D113

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Institut yadernoy fiziki (Moscow State University imeni

M.V. Lomonosov. Institute of Nuclear Physics).

SUBMITTED:

September 18, 1961.

Card 3/3

SPIVAK, G.V.; KROKHINA, A.I.; TEREMETSKAYA, A.G.; TERNOVSKAYA, M.V.

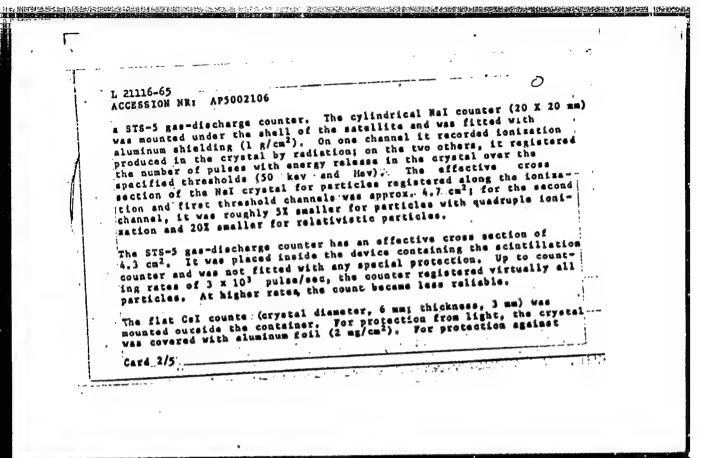
Studying the microstructure of ore minerals by ion bombardment.

Zap.Vses.min.ob-va 90 no.6:695-697 '61. (MIRA 15:2)

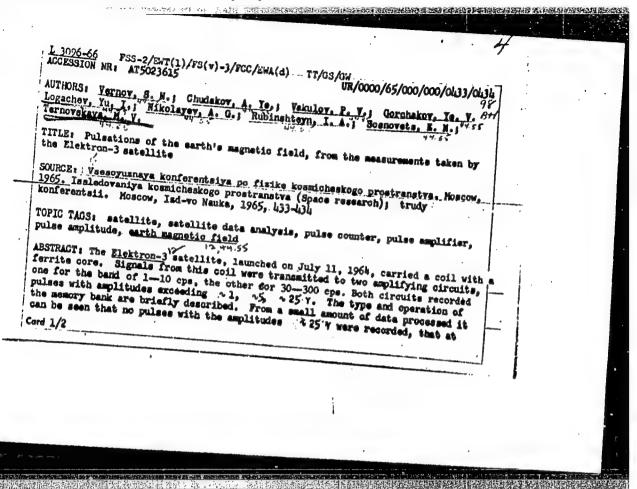
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1. Fizicheskiy fakul*tet Moskovskogo gosudarstvennogo universiteta.
(Mineralogy)

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                        Pe-5/Pg-4/Pi-4/Po-4/Pq-4/Pae-2/Peb/Pb-4 AEDC(b)/BSD/AFJL/SSD/ASD(a)-5/AEDC(a)/AFED(c)/AFETR/AFTC(a)/AFTC(b)/APGC(1)/ESD(a1) TT/GJ/WS
                                                                                   $/0048/64/028/012/2058/2074
                         ACCESSION NRI AP5002106
                         AUTHOR: Vernov, S. N.; Chudakov, A. Ye; Vakulov, P. V.; Gorchakov, Ye. V.; Ignat'yev, P. P.; Kuznetsov, S. N.; Logachev, Yu. I. Lyubimov, Q. P., Hikolayev, A. C.; Okhlopkov, V. P.; Sosnovets, E. N.; Ternovskaya,
                         Title: Radiation study by Cosmos 17 (Report presented at the Vee-
soyuznoye soveshchaniye po fizike kosmicheskikh luchey (All-Union
Conference on the Physics of Cosmic Rays), held at Hoscov, 4-10 Oct-
                          ober 19631
                         SOURCE: AN SSSR. Izvestiys. Seriya fizicheskeye, v. 28, no. 12,
                          1964, 2058-2074
                         TOPIC TAGS: radiation measurement, spaceborne ionisation measurement, primary cosmic radiation, Vacintillation seguntar, gas discharge counter/
                          STS-5 gas discharge counter, Cosmos-17
                          ABSTRACT: The article describes equipment used in the flight of Cosmos-17 (apogee, 788 km; parigee, 260 km) for investigating the
                          Earth's radiation belts and primary cosmic radiation. The equipment
                          consisted of two scintillation counters (with NeI and Gel crystals) and
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		bramsstrahlung, the photomultiplier and the crystal were shielded with 5 mm of lead and 11 mm of aluminum, except for the front of the photomultiplier, which had a conical opening for particle incidence (aperture angle, 40°). This counter carried out ionisation measurements and particle registration at energy release in the crystal of 45 and 160 kev and 5.4 and 8.5 Mev. Both electrons and protons could be registered along the first two (45 and 160 Kev) channels. Along the other two (5.4 and 8.5 Mev) channels, the count was mainly of protons; at an electron path perpendicular to the crystal surface energy losses were about 2-Nev and oblique-paths were precluded by the thickness of the shielding. Table 1 of the Enclosure gives the minimal of particle energies registered by the counters. Orig.: ers. ihas::32 2	
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and that at the intermediate	l γ) the count exceeded seven pulses per 2 minutes, sensitivity (>5 γ) about 2-3 pulses were recorded and about 1 by the high-frequency circuit. It is
noted that the number of magningenerally greater in the free	netic field pulses with the amplitude 25% is quency region of 1—10 cps than in the region of 30—300 sity tends to increase in some geographical regions. ecorded by the low-frequency circuit but not by the fold
high-frequency one.	
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SALIKHBAYEV, Kh.S.; BOGDANOV, A.N.; ZAKHIDOV, T.Z., akademik, red.; TER-NOVSKAYA, R.M., red.; EYDEL'MAN, A.S., red.; KARABAYEVA, Kh.U.; tekhn. red.

[Fauna of the Uzbek S.S.R.] Fauna Uzbekskoi SSR. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR. Vol.2. [Birds] Ptitsy. Pt.e. 1961. 271 p. (MIRA 14:9)

1. Akademiya nauk Uzbekskoy SSR (for Zakhidov).
(Birds)

TURAKULOV, Ya.Kh.; YUNUSOV, A.Yu., doktor med. nauk, otv. red.;

MEREZHINSKIY, M.V., prof., retsenzent; TERNOVSKAYA, R.M.,

red.; KARABAYEVA, Kh.U., tekhn. red.

[Biochemistry of thyroid hormones in healthy and pathological states] Biokhimiia gormonov shchitovidnoi zhelezy v norme i pri tireoidnoi patologii. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1962. 221 r. (MIRA 15:7)

(THYROID HORMONES) (THYROID GLAND-DISEASES)

SAYDALIYEVA, M.S.; RYZHKOV, O.A., doktor geolog.-miner . nauk, otv.
red.; TEUNOVSKAYA, R.M., red.; KARABAYEVA, Kh.U., tokhn. red.

[Tectonic characteristics of the formation of oil and gas pools
in Genozoic sediments of the Andizhan fold group] Tektonicheskie
osobennosti formirovaniia zalezhei nefti i gaza v kainozoiskikh
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Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1962. 110 p.

(MIRA 15:7)

(Andizhan Province--Petroleum geology)

(Andizhan Province--Gas, Natural--Geology)

RYZHKOV, O.A., doktor gel.-miner. nauk, prof., otv. red.;
TERNOVSKAYA, R.M., red.; KARABAYEVA, Kh.U., tekhn. red.

[Tectonics and some problems of the oil and gas potentials of Mesozoic and Cenozoic sediments in Uzbekistan]
Tektonika i nekotorye voprosy nefte-gazonosnosti meso- i
kainozoiskikh otlozhenii Uzbekistana. Tahhkent, Izd-vo
Akad. nauk UzSSR, 1962. 141 p. (MIRA 16:4)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut geologii
i razrabotki neftyanykh i gazovykh mestorozhdeniy.

(Uzbekistan--Gas, Natural--Geology)

(Uzbekistan--Gas, Natural--Geology)

(Uzbekistan--Geology, Structural)

VALIYEV, A.A.; EGAMBERDYYEV, M.E., kand. geol.-min. nauk, otv. red.; TERNOVSKAYA, R.M., red.; KARABAYEVA, Kh.U., tekhn.red.

[Lithology and paleomagnetism of Cenozoic molasses in northern Fergana]Litologiia i paleomagnetizm kainozoiskikh molass Severnoi Fergany. Tashkent, Izd-vo UzSSSR, 1962. 122 p.

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(Fergana--Rocks, Sedimentary-Magnetic properties)

YEKSHIBAROV, S.V.; RYZHKOV, O.A., doktor gool.-mat. nauk, otv. red.; TERNOVSKAYA, R.M., red.; KARABAYEVA, Kh.U., tekhn. red.

经国际的数据。1912年12月1日,1912年12月日,1912年12月末日,191年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末日,1912年12月末年12月末年12月末年12月末年12月末日,1912年1日末年11月末年11月末年11月末年11月末年11月末年11月末年

[Tectonics and some problems of oil and gas potentials of Mesozoic sediments in the southwestern and of the Gissar meganticline and the eastern part of the Kashka-Darya trought] Tektonika i nekotorye voprosy neftegazonosnosti mezozoiskikh otlozhenii iugo-zapadnogo okonchaniia Gissarskoi megantiklinali i vostochnoi chasti Kashkadar'inskoi vpadiny. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1962. 125 p. (MIRA 15:11)

(Surkhandarya Province—Petroleum geology) (Surkhandarya Province—Gas, Natural—Geology) (Surkhandarya Province—Geology, Structural)

KOROLEV, A.V.; KHAMRABAYEV, I.Kh., doktor geol.-min. nauk, glav. red.; BATALOV, A.B., kand.geol.-min. nauk, zam. glav. red. [deceased]; BAYMUKHAMEDOV, Kh.N., doktor geol.-min. nauk, red.; BYKOV, L.A., red.; GAR'KOVETS, V.G., red.; KHLOBUSTOV, A.A., kand. geol.-min. nauk, red.; TERNOVSKAYA, R.M., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Select works] Izbrannye trudy. Tashkent, Izd-vo AN UzSSR. Vol.1. 1963. 499 p. (MIRA 16:12)

 EGAMEERDYYEV, M.; RYZHKOV, O.A., doktor geol.-miner. nauk, prof., otv. red.; TERNOVSKAYA, R.M., red.; KARABAYEVA, Kh.U., tekhn. red.

[Lithology, facies, and paleogeography of sedimentary formations of the Upper Cretaceous of the Upper Cretaceous in the Auminza-Tau (Kuzyl Kum)] Litologiia, fatsii i paleogeografiia verkhnemelovykh osadochnykh formatsii gor Auminzatau (Kyzylkumy). Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1963. 169 p. (MIRA 16:7)

(Auminza-Tau--Rocks, Sedimentary) (Auminza-Tau--Paleogeography)

REZANOV, I.A.; NGO TKHYONG SHAN; SHEYNMANN, Yu.M.; RATS, M.V.; KRUG, O.Yu.; ZYRYANOV, V.N.; RAKCHEYEV, A.D.; YAKOVLEVA, Ye.B.; PETPOVA, M.A.; PETROV, Yu.I.; KUZNETSOV, Ye.A.; YUDINA, V.V.; BARDINA, N.Yu.; SIMANOVICH, I.M.; ATANSYAN, S.V.; SERGEYEVA, A.M.; PARFENOV, S.I.; RUTKOVSKI, Yatsek [Rutkowski, Jacek]; MAKHLINA, M.Kh.; ZVEREV, V.P.; TERNOVSKAYA, V.T.; SAMOYLOVA, R.B.; YERMAKOVA, K.A.; BYKOVA, N.K.; MEYYEN, S.V.; BARSKOV, I.S.; IL'INA, L.B.; BABANOVA, L.I.; DOLITSKAYA, I.V.; GORBACH, L.P.; BUTS'KO, S.S.; TRESKINSKIY, S.A.; SVOZDETSKIY, N.A.; PRYALVKHINA, A.F.; GROSVAL'D, M.G.; MODEL', Yu.M.; CORYAINOVA, I.N.; MEDVEDEVA, N.K.; MYALO, Ye.G.; DOHROVOL'SKIY, V.V.; KHOROSHILOV, P.I.; CHIKISHEV, A.G.

Brief news. Biul. MOIP. Otd. geol. 40 no.3:122-154 My-Je '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

TERNOVSKIY, D.V.: TERMOVSKAYA, Yu.G.

Studying the biology of Scops owl during the feeding period of the nestlings. Isv.Sib.otd.AN SSSR no.11:81-89 '59. (MIRA 13:4)

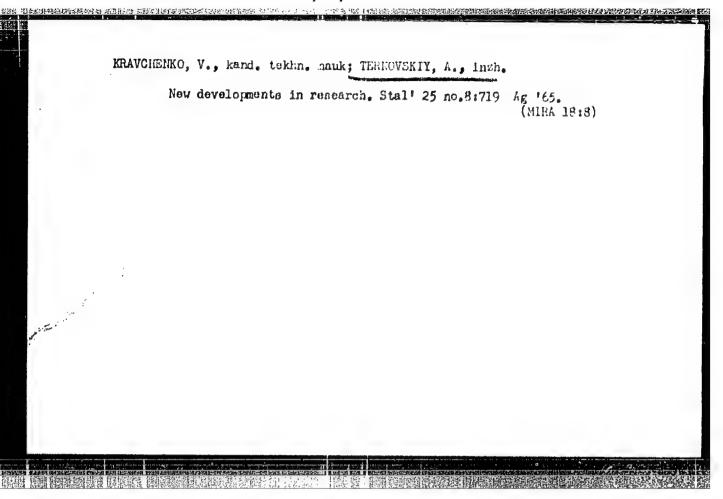
1. Institut biologii Sibirskogo otdeleniya AN SSSR. (Owls)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755420006-1"

TERNOVSKIY, A., Inzh.

Production of corrugated roofing sheets. Sel'. stroi. 17
no.4:24 Ap '63. (MIRA 16:7)

(Sumy Province—Roofing)

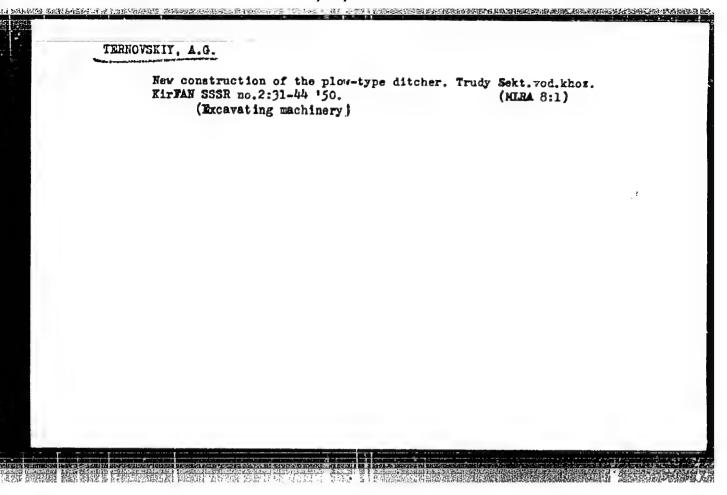


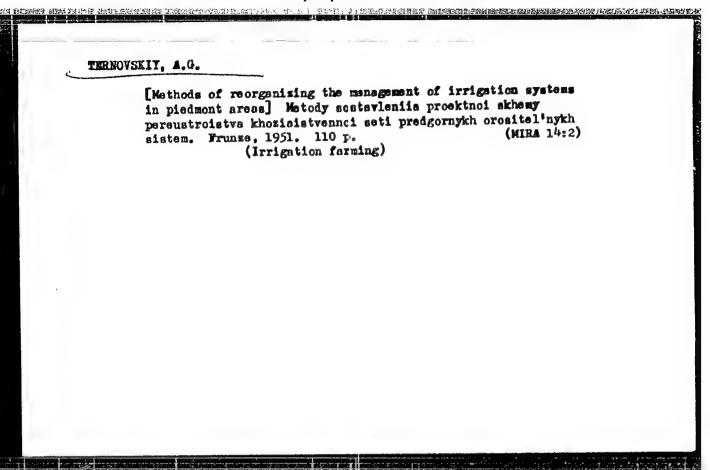
TERNOVSKIY, A. G.

Water Supply - Frunze Province

Problems of Water utilization under conditions prevailing in the Frunze Province of the Kirghiz S. S. R. Trudy Sek. vod.khoz. KirFAN SSSR No. 1, 1950.

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KRAVCHEGKO, V.A., kand. tekhn. nauk; TERNOVSKIY, A.N., inzh.; KHASIN, G.A.;
DAVIDYGK, V.N.

New developments in research. Stal' 25 no.8:818-819 S'65.

(MIRA 18:9)

GABUYEV, G.Kh.; TERNOVSKIY, A.N.

Thirtieth anniversary of the Zarorozh'ye metallurgical plants.

(MIRA 16:2)

Stal' 23 no.1:1-5 Ja '63.

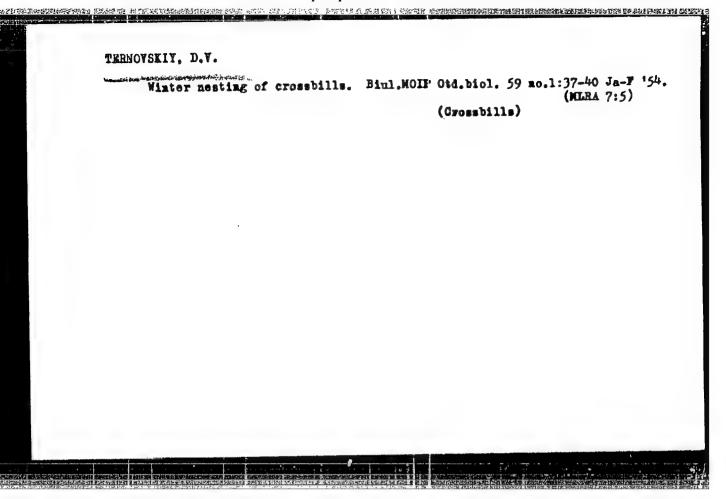
(Zaporozh'ye--Iron and steel plants)

	Townsends & H.
1 1	UTHOR: Kravchenko, V. A. (Candidate of technical sciences); Ternovskiv. A. H. Engineer)
F	RG: Ukrainian Scientific Research Institute of Special Steels, Alloys, and erroalloys (Ukrainskiy nauchno-issledovatel'skiy institut spetsial'nykh staley, plavov i ferrosplavov)
	SOURCE: Stal', no. 9, 1965, 818
е	COPIC TAGS: heat resistant alloy, vacuum arc, vacuum melting, vacuum arc furnace, electrode, ductility, metal rolling, metal forging, nitrogen, oxygen, hydrogen/EI437B neat resistant alloy
ad h h t	ABSTRACT: Electrodes were forged from 1-ton ingots cast from an alloy melted in an open arc furnace. After vacuum arc remelting the metal had excellent ductility during forging and rolling, and a long-time strength was obtained which was 22.6% nigher than in a normally melted alloy. The oxygen content was reduced by 30-40%, mydrogen by 30-50%, and nitrogen by 10-30%. The finished output (in relation to the mass of the finished rods 26-35 mm in circumference and iron bars of the initial electromelting) amounted to 31.1 and 34.1% respectively when forged and cast electrodes are used. This work was done jointly with the "Dneprospetsstal" plant.
	SUB CODE: 11, 13, 20 / SUBM DATE: none UDC: 669.187.26.001.5

结合性的 网络人名马利斯 经成本 医液态 医生物经验 医阿根斯氏病 医阿根斯氏病 医阿姆氏病 医阿姆氏病 医阿姆氏病 医阿姆氏病 医阿姆氏病 医多种性

- 1. TERNOVSKIY, D. V.
- 2. USSR (600)
- 4. Sables
- 7. New data on the biology of the sable. Priroda 42, No. 5, 1953.

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Theorem of the Jorka (national view tr.) in the Alter." Touck state U iment V. V. Kuybyshev. Kovestbirsk, 1960. (Discortations for the Degree of Candidate in Miningual Johnnes).

20: Knizhnava Letopist No. 22, 1966

TERNOVSKIY, D.V. (Novosibirsk)

Mycerobas carnipes. Priroda 45 no.2:11.7-118 F '56. (MIRA 9:5)

1. Biologicheskiy institut Zapadno-Sibarskogo filiala Akademii nauk SSSR. (Altai Mountains--Birds)

CIA-RDP86-00513R001755420006-1" APPROVED FOR RELEASE: 07/16/2001

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American mink in Altai. Priroda 46 no.1:102-104 Ja '57. (MLRA 10:2)

1. Biologicheskiy institut Zapadno-Sibirskogo filiala Akademii nauk SSSR, Novosibirsk.

(Altai Territory--Minks)

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TERMOVSKIY, Dmitriy Vladimirovich; MAKSIMCV, A.A., kand.biolog.nauk, otv.red.; SHLYCHKOVA, A.I., red.ind-va; LISIMA, V.M., tekhn.red.

[Biology and acclimatization of the American mink (Lutreola vison Brisson) in the Altai] Biologia i akklimatizatsiia amerikanskoi Brisson) in the Altai] Biologia i akklimatizatsiia amerikanskoi Brisson) na Altae. Otvet.red. A.A.Maksimov. norki (Lutreola vison Brisson) na Altae. Otvet.red. A.A.Maksimov. Novosibirsk. Novosibirskoe knizhnoe izd-vo, 1958. 137 P(MIRA 13:5)

(Altai Territory--Minks)

TERHOVSKIY D.V.; TERHOVSKAYA, Yu.G.

Studying the biology of Scope owl during the feeding period of the neetlings. Izv.Sib.otd.AN SSSR no.11:81-89 159. (MIRA 13:4)

1. Institut biologii Sibirskogo otdeleniya AN SSSR. (Owls)

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TERNOVSKIY, D.V., kand.biolog.nauk (Novosibirsk); ZALETAYEV, V.S., kand.geograf,nauk (Moskva)

Do the birds attack people? Priroda 51 no.7:94-96 J1 '62.

(Birds of prey)

SERVICE OF STREET, STR

ABRAMOVICH, David Iosifovich, doktor geogr. nauk, prof.;
KRYLOV, Georgiy Vasil'yevich, doktor biol. nauk, prof.;
NIKOLAYEV, Vladimir Aleksandrovich, kand. geol.-miner.
nauk; TERNOVSKIY, Dmitriy Vladimirovich, kand. biol. nauk;
STRIGIN, V.M., red.; FOLOZHENTSEVA, T.S., mlad. red.;
MAL'CHEVSKIY, G.N., red.kart; VILENSKAYA, E.N., tekhn.red.

[West Siberian Plain; a study of its natural history] Zapadno-Sibirskaya nizmennost'; ocherk prirody. [By] D.I.Abramovich i dr. Moskva, Geografgiz, 1963. 261 p. (MIRA 16:12) (West Siberian Plain-Natural history)

TERNOVSKIY, Sergey Dmitriyovich, zasl. deyatel' nauki, prof.
[decensed]; VOZDVIZHENSKIY, Sergey Ivanovich; DERZHAVIN,
Val'ter Mikhaylovich; KONDRASHIN, Nikolay Ivanovich;
BLAGOVESHCHENSKAYA, Ol'ge Vladimirovna; PRONIN, V.I.,
red.; PRONINA, N.D., tekhm. red.

[Treatment of chemical burns and cicatricial stenosis of the esophagus in children] Lechenie khimicheskikh ozhogov i rubtsovykh suzhenii pishchevoda u detei. Moskva, Medgiz, 1963. 134 p. (MIRA 17:3)

1. Chlen-korrespondent A'N SSSR (for Ternovskiy).

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JD/HA EWT(m)/EWA(d)/EWP(t)/ETI/EWP(k) IJ2(c) SOURCE CODE: UR/0133/65/000/009/0818/0819 ACC NRI AP6017773 AUTHOR: Kravchenko, V. A. (Candidate of technical sciences); Ternovskiy, A. (Engineer) ORG: Ukrainian Scientific Research Institute of Special Steels, Alloys, and Ferroalloys (Ukrainskiy nauchno-issledovatel'skiy institut spetsial'nykh staley, splavov i ferrosplavov) TITIE: Improvement of ductility in two-phase and ferritic steels SOURCE: Stal', no. 9, 1965, 818-819 TOPIC TAGS: ductility, ferritic steel, steel, metal forging, metal rolling, ductility, steel structure/Kh23N18 steel, Kh17N12M2T steel ABSTRACT: To prepare for the conversion of production of billets and various sectioned shapes made from (0) Kh23Nl3\and Khl7Nl2N2T\(EI448\) steel ingots forged after rolling the ductility of cast and deformed steel of both grades of a number of melts were studied at high temperatures. The change in steel structure was studied during heating at different temperatures and with different times which permitted the development of experimental heating conditions of 2.8-ton ingots before rolling into billets 175 mm square on an 825 mill. The energy force parameters were studied when the ingots of both steels were rolled and the quality of the rolled and forged metal was compared. Conversion of Khl7Nl3M2T steel forged after rolling with precise observation of the ingot heating conditions according to the optimal variation permitted an increase in labor productivity, an increase in the yield of finished metal by 11.4%, and a significant reduction of production expenses. This work was done jointly with the "Dneprospetsstal!" Plant. [JPRS] SUB CODE: 11, 13, 20 / SUBM DATE: nonfinc: 669.18-412:621

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	L 27457-66 ENT(m)/ENA(d)/ENP(t)/ETI IJP(c) JD	
	ACC HR: AP6017774 SOURCE CODE: UR/0133/65/000/009/0819/0819	
	AUTHOR: Kravchenko, V. A. (Candidate of technical sciences); Ternovskiy, A. N. 44	
-	(Engineer) ORG: Ukrainian Scientific Research Institute of Special Steels, Alloys and Ferroalloys	
	(Ukrainskiy nauchno-issledovatel'skiy institut spetsial'nykh staley, splavov i ferrosplavov)	
	TITIE: Study of the quality and characteristics of melting high-strength steels	
	using high-carbon ferromanganese containing a small amount of phosphorus	
	SOURCE: Stal', no. 9, 1965, 819	
	TOPIC TAGS: high strength steel, metal melting, phosphorus, steel, alloy, manganese,	
	manganese steel, structural steel. Rerromanganese/junious steel, junious	. 1
1	Spag steel SPA3 steel 25KhSNVFA steel 45G1/1U3 Steel	,
	ABSTRACT: Experimental carbon ferromanganese containing a small amount of phosphorus (up to 0.025%) was used to melt 30KhGSA 30KhGSNA SP-28, SP-43.	
	1 25KhSNVFA and 15Cl7Vu3 Wheels. The rhosphorus content in 30KhGSNA steel	
-	tos thereby reduced 31.7% at the consuming rate of 9 kg/ton (kg/mg) of the	
A	lallow Touchness was increased on the average of 20% walls the share of	
	the malts which did not pass initial tests (before homogenization) was re-	,
	duced from 66 to 112. The substitution of metallic manganese by the experi-	:
	imental allow in the melting of high-strength, structural, low-magnetic and	
	manganese steels (ET700 type) offers a significant economic saving. This	
1	work was done jointly with the Zaporszh'ye Ferroalloys Plant and the	
	"Uneprospetsstalt" Plant. [JPRS] SUB CODE: 11 / SUBM DATE: none	2
	Card 1/1 00 UDC: 669.187.2.001.5	
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21(7), 21(1), 24(5)

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AUTHOR:

Ternovskiy, F. F.

TITLE:

Pair Formation in Collisions of Charged Particles

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 3(9), pp 793-798 (USSR)

ABSTRACT:

Pair formation in collisions of charged particles has already repeatedly been investigated (Refs 1-5); the results for the cross sections obtained by all authors were found to agree within range of the pair-particle-energies ε_+ and ε_- , where

 $\varepsilon_+ + \varepsilon_- \ll E/m$ holds (range I). The cross sections in the range $\varepsilon_+ + \varepsilon_- \gg E/m$ (range II) were calculated by Bhabha (Ref 2) and

Murota (Ref 5), where, however, the results obtained differ considerably. Murota pointed out the errors in Bhabha's calculations in range II, but also Murota's results are inaccurate. Two different processes contribute to these cross sections: processes of first order, in which the pair particles are considered to be free, and processes of second order, where the

primary particles are considered to be free particles. The lat-

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ter processes make the main contribution to the integral cross section, but in cross section determinations carried out in range II, also the former must be taken into account. Already Landau and Pomeranchuk pointed out the influence of multiple scattering in radiation processes in a medium at high energies (Refs 6,7). Migdal, taking this effect into account, calculated the cross sections of bremsstrahlung and pair productions by γ-quanta. Also in the present paper multiple scattering is taken into account. The pair production of simply charged particles with the masses m $\gg 1$ and the energies E \gg m is investigated (a selection of the system is carried out in such a manner that $k = m_e = c = 1$). Besides, the energy of the electron is assumed to be $\epsilon_-\gg 1$ and that of the positron $\epsilon_+\gg 1$. Under these conditions the contribution made by the process of second order to the differential cross section is first evaluated on the basis of the perturbation theory. General formulas are given, and the limiting cases, when $k \ll p/m$ and k >> p/m, are specially investigated, and explicit formulas are also given for do. The results obtained deviate from those obtained by Murata et al. In the following the author investi-

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gates the contribution made by processes of first order, the procedure being similar to that adopted in part 1. The investigation is, however, confirmed to such limiting cases in which either the processes of first or those of second order may be neglected. The influence of the external field on the primary particles is taken into consideration by means of the diffraction approximation method. It is found that pair formation is most probable if $x = m^2 p_p / p(p-k) \ll 1$ (the system of coordinates is selected in such a manner that the z-axis coincides with \vec{n} , where $\vec{n}=\vec{k}/k$). If the primary particle is nuclear-active, the cross section in the case $x \gg 1$ is given by formula (31); if it is not, formulas (24) and (25) at $1 \ll x \ll m^2$ give the cross section and if $m^2 \ll x$ this is done by formulas (29) and (30). The main contribution to the integral cross section is made by the range $k \ll p/m$; in this case it is possible, independent of particle spin (in the absence of a shield) to obtain the following: $\sigma = (28\alpha^2 r_0^2 Z^2/27\pi) \ln^3(\kappa p/\pi)$, $imes \sim$ 1. Also for the case of complete shielding a formula is

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given. There are 10 references, 4 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: April 11, 1959

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